[illegible] -- [illegible]

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[illegible] AI[illegible]A Modern Approach [illegible] Nature Magazine [illegible] AlphaGo Zero paper [illegible] [1][illegible]

[illegible] Alpha [illegible]leukotomy [illegible]

[illegible]

[illegible]

[illegible]

[illegible] talent pool [illegible] talent pool [illegible]

[illegible]

[illegible] Karl Raimund Popper [illegible]

Marvin Minsky [illegible] The Emotion Machine [illegible] emotion [illegible] animal [illegible] liberal arts[illegible]mathematics [illegible] sciences[illegible]

[illegible] AI: A Modern Approach [illegible] Turing Machine [illegible]

Marvin Minsky [illegible] AlphaGo Zero paper [illegible] superhuman [illegible] superhuman [illegible]

[illegible] Technological Singularity [illegible] [2][illegible]

[illegible]·[illegible] [3][illegible]

[illegible] liberal arts[illegible]natural languages [illegible] philosophies [illegible]

[illegible] **Alpha** [illegible]

[illegible] Deepmind [illegible] [4][illegible]

AlphaGo Master [illegible] AlphaGo Master[illegible]AlphaGo Master [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Master [illegible]

[illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible][5][illegible]AlphaGo Master [illegible] 16 [illegible] AlphaGo Zero [illegible] 18 [illegible] AlphaGo Zero [illegible] 14[illegible]16 [illegible] 45 [illegible]

1[illegible] Nature Magazime [illegible] AlphaGo [illegible]Deepmind [illegible] AlphaGo Zero [illegible] AlphaGo Master [illegible]

2) [illegible] AlphaGo Zero [illegible] local trap[illegible]AlphaGo Zero [illegible] Superhuman [illegible]

[illegible] AlphaGo Zero [illegible] AlphaGo Master[illegible] AlphaGo Master [illegible] AlphaGo Master[illegible] AlphaGo Master [illegible] [6][illegible] Nature Magazine [illegible] AlphaGo Zero paper [illegible] AlphaGo Master [illegible] deep-learning [illegible]

[illegible] AlphaGo Zero [illegible] AlphaGo Master[illegible] AlphaGo Master [illegible]

[illegible] AlphaGo Zero [illegible] [7][illegible] game [illegible]

Superhuman [illegible]Clock [illegible]IBM S/360 [illegible] AlphaGo Zero [illegible] superhuman[illegible]IBM S/360 [illegible] superhuman[illegible] AlphaGo Zero [illegible] Nature Magazine [illegible] AlphaGo Zero paper [illegible] superhuman [illegible]

[illegible] superhuman [illegible] Technological Singularity [illegible] Demis Hassabis [illegible] AlphaGo [illegible]

[illegible] AlphaGo [illegible] Deepmind team [illegible] AlphaGo [illegible]

[illegible] AlphaGo [illegible] AlphaGo [illegible]

[illegible] AlphaGo Zero[illegible] AlphaGo Zero [illegible] superhuman [8][illegible] superhuman[illegible] superhuman[illegible] deep-learning[illegible]reinforcement[illegible] superhuman [illegible]

[illegible]AlphaGo Zero [illegible] AlphaGo Master [illegible] AlphaGo Master [illegible] superhuman[illegible] AlphaGo Master [illegible] 60 [illegible] 3 [illegible] AlphaGo Master [illegible] superhuman[illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible] superhuman[illegible] superhuman [illegible]

[illegible] AlphaGo [illegible] AlphaGo [illegible] [9][illegible]

[illegible] Turing Machine [illegible] deep-learning [illegible] AlphaGo [illegible] AlphaGo Zero [illegible] AlphaGo Master[illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible]

Deep-learning [illegible] credit[illegible] reinforcement[illegible] local trap[illegible]AlphaGo [illegible]

[illegible]

[illegible] [10][illegible]

[illegible] [11][illegible]

[illegible]

[illegible] [12][illegible]

[illegible]Turing Machine [illegible] Turing Machine [illegible] local trap[illegible] Universal approximation [illegible]

[illegible]Socratic method [illegible]Superhuman [illegible] Superhuman [illegible]

[illegible]

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Demis Hassabis □□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□ [13]□□□□□□□□□□□□□□□□□ Geoffrey Hinton □□□□□□□□□□□□□□

Turing Machine □□□□□□□□□□□□□□□□□□□□□□□□□□□□ Turing Machine □□□□□□□□ Geoffrey Hinton □□□□□□□□□□□□ Turing Machine □□□□□□□□□□ Alan Turing □□□□□□□□□□□□□□□□□□□□□□□□

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□□□□□□□□□□□□ Dialogue Concerning the Two Chief World Systems [14]□□ Socratic method □□□ [15]□

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□□ [17]□□

□□**Leukotomy** □ **BRIAN Initiative**

Leukotomy □□□□□□□□□□□□

1□□□□□□□□□□□ personalities □ mental diseases□□□□ personalities □□□□□□□□□□□□□□□□□□□□□□□□□□□□ BRAIN Initiative project □□□□□

2□□ leukotomy □□□□□□□□□□□□□□□ Leukotomy □□□□□□□□□□□□□□□□□□□□ BRAIN Initiative □□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□

3□□□□□ personality □ intelligence □□□□□□□□□□□□□ Walter Freeman □□□□□□□□□□□□□□□ personality □ intelligence □□□□□□□□□□□□□□

BRAIN Initiative project [illegible] NIH [illegible] BRAIN 2025 Report [illegible] “there is general agreement that types can be defined provisionally by invariant and generally intrinsic properties”[illegible] invariant [illegible] agreement [illegible] insights[illegible]“envision an integrated, systematic census of neuronal and glial cell types”[illegible] dynamic brain mapping [illegible]“Link brain activity to behavior”[illegible]“Produce conceptual foundations for understanding the biological basis of mental processes”[illegible] mental processes [illegible] behavior[illegible]

BRAIN Initiative project [illegible] personality [illegible] intelligence [illegible] brain mapping [illegible] personality [illegible] intelligence [illegible]hidden assumptions[illegible]

[illegible] personality [illegible] intelligence [illegible]

[illegible] BRAIN Initiative project [illegible] brain mapping [illegible] mental diseases[illegible] personality [illegible] intelligence[illegible] personality [illegible] intelligence [illegible] leukotomy [illegible]

[illegible] leukotomy [illegible] Alpha [illegible]

[illegible] personality [illegible] intelligence[illegible] mental diseases [illegible]

BRAIN Initiative [illegible] brain mapping [illegible] human level intelligence [illegible] personalities[illegible]intelligence [illegible] mental diseases [illegible]BRAIN Initiative [illegible] neurosciences [illegible]AlphaGo [illegible] generic human intelligence[illegible] Alpha [illegible] neurosciences [illegible] [18][illegible]

[illegible]

[illegible] AlphaGo Master [illegible] AlphaGo Zero [illegible] AlphaGo Zero [illegible] AlphaGo [illegible] AlphaGo Master [illegible] Alpha [illegible]

Alpha [illegible]

[illegible] Technological Singularity [illegible] BRAIN Initiative project [illegible] Technological Singularity [illegible] baseless [illegible]

[illegible]

[illegible] AlphaGo Zero achieved superhuman performance[illegible] Demis Hassabis [illegible] AlphaGo [illegible]

[illegible]

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[1] [illegible]

[2] [illegible]Technological Singularity [illegible]AlphaGo Zero [illegible] superhuman [illegible]

[3] [illegible]

[illegible]·[illegible]

[illegible]+[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[4] [illegible] Cracking Go [illegible] Deep Blue [illegible]AlphaGo [illegible] AlphaGo [illegible]

[5] [illegible] http://www.alphago-games.com/[illegible]AlphaGo Zero [illegible] AlphaGo Zero [illegible] https://www.101weiqi.com/chessbook/player/38348/[illegible]

[6] AlphaGo Master [illegible]AlphaGo Master [illegible]

[7] [illegible] superhuman [illegible]
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[illegible] AlphaGo [illegible]

[illegible] Turing Machine [illegible] limitation [illegible] AlphaGo [illegible] AlphaGo [illegible]

[illegible] Crazy Stone [illegible] AlphaGo [illegible] AlphaGo [illegible]

[illegible] AlphaGo [illegible]

[illegible] AlphaGo [illegible] Google [illegible] AlphaGo [illegible] AlphaGo Zero [illegible] AlphaGo [illegible] Human level artificial intelligence [illegible] AlphaGo [illegible]

[illegible] Google/Deepmind [illegible] AlphaGo [illegible]

[8] http://www.alphago-games.com/ [illegible] Full Strength of Alphago Zero, i.e. Final Form [illegible] 40 Blocks [illegible] 20 Blocks [illegible] Not Full Strength of Alphago Zero [illegible] Alphago Zero [illegible] Alphago Zero [illegible] superhuman [illegible]

[9] 2012 [illegible]

[10] [illegible]:"Go gaming is strictly defined within a very small space. Industrial automations are typically designed in well controlled environments, but not strictly defined. Car driving is regulated, but the environment is not well controlled" [illegible]

[illegible]

[11] [illegible]

[12] [illegible]

[illegible] Alpha [illegible]

[13] [illegible] AlphaGo Master[illegible]AlphaGo [illegible] AlphaGo [illegible] Alpha [illegible]

[14] Dialogue Concerning the Two Chief Word Systems [illegible] Socratic Method [illegible]

[illegible] AlphaGo [illegible]

[illegible]

[15] [illegible] Alpha [illegible] Alpha [illegible]

[illegible] Alpha [illegible] BRAIN Initiative project [illegible]

[illegible]

[16] Leukotomy [illegible]BRAIN Initiative project [illegible] [illegible]**BRIAN Initiative**[illegible]

[17] [illegible]

[illegible]I do not cross the boundary between sciences and religions; Gödel's theorems suggest metaphysics from humans may not work[illegible]

[illegible]

[illegible]

[18] [illegible] Alpha [illegible]